

U.S. Patent Application No. 09/832,229
Reply to Final Office Action dated January 13, 2006

PATENT
450100-03185

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Previously Presented) A data transmission device comprising:

a first generator for generating a first data stream that is utilized after the first data stream is accumulated in a recording medium on a receiving side;

a second generator for generating a second data stream that includes audio data and video data;

a multiplexer for multiplexing the first data stream and the second data stream;

a transmitter for transmitting the multiplexed data stream that has been multiplexed by the multiplexer; and

a controller for controlling the multiplexer so that a transmission rate for the first data stream becomes lower than that for the second data stream,

wherein a maximum combined transmission rate for said multiplexed data stream is 24 Mbps.
2. (Original) A data transmission device according to claim 1, wherein said first data stream includes data relating to an electronic-commercial transaction.
3. (Original) A data transmission device according to claim 1, wherein said first data stream includes audio data and video data.

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4. (Canceled)

5. (Previously Presented) A data transmission device according to claim 1,
wherein a transmission rate for said first data stream is about 2 Mbps.

6. (Previously Presented) A data receiving device comprising:
a receiver for receiving a multiplexed data stream, in which a first data stream,
which is utilized after the first data stream is accumulated in a recording medium on a receiving
side, and a second data stream including audio data and video data are multiplexed into the
multiplexed data stream in such a manner that a transmission rate for the first data stream
becomes lower than that for the second data stream,

wherein a maximum combined transmission rate for said multiplexed data
stream is 24 Mbps;

a separator for separating the multiplexed data stream, which has been received
by the receiver, into the first data stream and the second data stream; and

a recorder for recording the first data stream, which has been separated by the
separator, on a recording medium.

7. (Original) A data receiving device according to claim 6, wherein said first
data stream includes data relating to electronic-commercial transaction.

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8. (Original) A data receiving device according to claim 6, wherein said first data stream includes audio data and video data.

9. (Canceled)

10. (Previously Presented) A data receiving device according to claim 6, wherein a transmission rate for said first data stream is about 2 Mbps.

11. (Original) A data receiving device according to claim 6, wherein said recorder records a first data stream, which is in a field with a high user-viewing frequency, for preference.

12. (Original) A data receiving device according to claim 6, wherein said recorder records a first data stream, which is in a field specified beforehand, for preference.

13. (Original) A data receiving device according to claim 6, wherein said recorder includes a hard disk as a recording medium.

14. (Original) A data receiving device according to claim 6, wherein said recorder comprises an outputter for outputting a user's viewing history visually.

15. (Previously Presented) A transmission device comprising:

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transmitting means for transmitting a data stream, which includes audio data and video data, using a program broadcasting band, and transmitting a data stream, which is utilized after this data stream is accumulated in a recording media on a receiving side, by allocating this data stream to a data broadcasting band; and

controlling means for controlling the program broadcasting band and the data broadcasting band so that a sum of the bands does not exceed a given bandwidth,

wherein a maximum sum of said program broadcasting band and said data broadcasting band is 24 Mbps.

16. (Canceled)

17. (Previously Presented) A receiving device comprising:

receiving means for receiving a broadcast in which a data stream including audio data and video data is transmitted using a program broadcasting band and other data stream, which is utilized after this data stream is accumulated in a recording media on a receiving side, is transmitted using a data broadcasting band to which this data stream is allocated, and the program broadcasting band and the data broadcasting band are controlled so that a sum of the bands does not exceed a given bandwidth,

wherein a maximum sum of said program broadcasting band and said data broadcasting band is 24 Mbps;

separating means for separating the data stream, which has been allocated to the data broadcasting band, from the broadcast that has been received by the receiving means; and

recording means for recording the separated data stream.

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18. (Canceled)

19. (Previously Presented) A data transmitting method comprising the step of:
generating a first data stream that is utilized after the first data stream is
accumulated in a recording medium on a receiving side;
generating a second data stream that includes audio data and video data; and
transmitting a multiplexed data stream that has been multiplexed from the first
data stream and the second data stream;
wherein said multiplexed data stream is multiplexed in such a manner that a
transmission rate for the first data stream becomes lower than that for the second data stream,
wherein a maximum combined transmission rate for said multiplexed data stream
is 24 Mbps.

20. (Original) A data transmitting method according to claim 19, wherein said
first data stream includes data relating to electronic-commercial transaction.

21. (Original) A data transmitting method according to claim 19, wherein said
first data stream includes audio data and video data.

22. (Canceled)

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23. (Previously Presented) A data transmitting method according to claim 19, wherein a transmission rate for said first data stream is about 2 Mbps.

24. (Previously Presented) A data receiving method comprising the step of:
receiving a multiplexed data stream that is multiplexed from a first data stream, which is utilized after the first data stream is accumulated in a recording medium on a receiving side, and a second data stream including audio data and video data in such a manner that a transmission rate for the first data stream becomes lower than that for the second data stream, wherein a maximum combined transmission rate for said multiplexed data stream is 24 Mbps

separating the multiplexed data stream, which has been received, into the first data stream and the second data stream; and
recording the first data stream, which has been separated, on a recording medium.

25. (Original) A data receiving method according to claim 24, wherein said first data stream includes data relating to electronic-commercial transaction.

26. (Original) A data receiving method according to claim 24, wherein said first data stream includes audio data and video data.

27. (Canceled)

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28. (Previously Presented) A data receiving method according to claim 24, wherein a transmission rate for said first data stream is about 2 Mbps.

29. (Original) A data receiving method according to claim 24, wherein a first data stream, which is in a field with a high user-viewing frequency, is recorded for preference on said recording medium.

30. (Original) A data receiving method according to claim 24, wherein a first data stream, which is in a field specified beforehand, is recorded for preference on said recording medium.

31. (Previously Presented) A transmitting method comprising the step of:
transmitting a data stream including audio data and video data, using a program broadcasting band, and transmitting other data stream, which is utilized after this data stream is accumulated in a recording media on a receiving side, by allocating this data stream to a data broadcasting band; and

controlling the program broadcasting band and the data broadcasting band so that a sum of the bands does not exceed a given bandwidth,

wherein a maximum sum of said program broadcasting band and said data broadcasting band is 24 Mbps.

32. (Canceled)

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33. (Previously Presented) A receiving method comprising the step of:

receiving a broadcast in which a data stream including audio data and video data is transmitted using a program broadcasting band and other data stream, which is utilized after this data stream is accumulated in a recording media on a receiving side, is transmitted using a data broadcasting band to which this data stream is allocated, and the program broadcasting band and the data broadcasting band are controlled so that a sum of the bands does not exceed a given bandwidth,

wherein a maximum sum of said program broadcasting band and said data broadcasting band is 24 Mbps, and wherein

recording the data stream, which has been allocated to the data broadcasting band, from the broadcast received by said receiving step.

34-69. (Canceled)

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